Claims

[c1] A latch assembly for coupling a door to an apparatus, said latch assembly comprising:

a keeper comprising a biasing member and a head portion extending from said biasing member, said head portion comprising a catch and a lock release projection, said biasing member configured to bias said catch for engagement with the door;

a handle comprising a contact surface in slidable contact with said lock release projection, said handle selectively operable to uncouple the door from the tub assembly; and

a handle retainer coupling said handle to the door.

[c2] A latch assembly in accordance with Claim 1 further comprising a handle hinge pin, said handle hinge pin coupling said handle to said handle retainer.

[c3] A latch assembly in accordance with Claim 1 further comprising a handle biasing member biasing said handle in a first position.

[c4] A latch assembly in accordance with Claim 3 wherein said handle biasing member in slidable contact with said handle retainer.

[c5] A latch assembly in accordance with Claim 1 wherein said keeper head portion formed integrally with said keeper biasing member.

[c6] A latch assembly in accordance with Claim 1 wherein said keeper head portion further comprises a switch actuator.

[c7] A latch assembly in accordance with Claim 6 wherein said switch actuator configured to actuate a switch from an open state to a closed state.

[c8] A latch assembly in accordance with Claim 1 wherein said handle retainer fixedly attached to the door.

[c9] A latch assembly in accordance with Claim 2 wherein said handle rotatably coupled to the door with said hinge pin.

[c10] A latch assembly in accordance with Claim 2 wherein said handle further

comprises at least one pivot arm comprising at least one opening therein mating sized to receive said handle hinge pin.

[c11] A method for assembling a door latch assembly for a dishwasher, the latch assembly for securing a dishwasher door to a dishwasher tub assembly, said method comprising:
providing a handle;
providing a handle retainer;
connecting the handle to the handle retainer; and
slidably coupling a keeper to the handle.

[c12] A method in accordance with Claim 11 wherein slidably coupling a keeper further comprises coupling the keeper to the handle such that the handle is rotatable in a first direction and the keeper is rotatable in a second direction that is opposite the first direction.

[c13] A method in accordance with Claim 12 wherein providing a handle further comprises providing a handle including at least one substantially circular projection that is configured to frictionally retain the handle.

[c14] A method in accordance with Claim 13 wherein connecting the handle to the handle retainer further comprises frictionally connecting the handle to the handle retainer.

[c15] A method in accordance with Claim 14 wherein providing a handle retainer further comprises providing a handle retainer including at least one substantially circular projection that is configured to frictionally retain a hinge pin.

[c16] A dishwasher comprising:
a tub assembly;
a door hingedly coupled at first edge to said tub assembly; and
a latch assembly configured to secure said door to said tub assembly, said latch assembly comprising:
a handle; and
a keeper in slidably coupled with said handle, said handle rotatable in a first

direction, said keeper rotatable in a second direction opposite said first direction.

[c17] A latch assembly in accordance with claim 16 wherein said handle comprises a substantially planar surface, said keeper comprises a substantially planar surface in slidable contact with said handle planar surface.

[c18] A latch assembly in accordance with Claim 16 wherein said keeper comprises a biasing member and a head portion extending from said biasing member, said head portion comprising a catch and a lock release projection, said biasing member configured to bias said catch for engagement with said door.

[c19] A latch assembly in accordance with Claim 16 wherein said handle further comprises a contact surface in slidable contact with said release projection, said handle selectively operable to unsecure said door from said tub assembly.